

April 14, 2003

INSTRUCTIONAL BULLETIN NO. 2003-4

SUBJECT: Baled Straw/Sediment Tubes/Curb Inlet Filters

EFFECTIVE DATE: April 10, 2003

SUPERCEDES: Part of Instructional Bulletin No. 94-11

RE: Instructional Bulletin 94-11 "Instructions for Sediment/Erosion Control Plans for South Carolina Highway Construction" – Standard Drawing No. 815-7

The use of Baled Straw is no longer an acceptable sediment or erosion control method. Baled Straw should not be placed in the quantities in future projects

In lieu of Baled Straw, Sediment Tubes (Standard Drawing No. 815-7) may be used in both, curb and gutter sections and ditch sections. The use of Sediment Tubes is more defined than the Baled Straw, but can be used in any condition where concentrated flows need to be filtered. Typically, Sediment Tubes come in 10-foot lengths and can be sewn together, end-to-end, in the field. Computation of the quantity of Sediment Tubes is by the linear foot in increments of 10 linear feet installed as shown on the Standard Drawing. Twelve inch diameter Sediment Tubes are to be specified in front of catch basins to filter run-off going into the catch basin weep hole. The Sediment Tube can be placed on the subgrade, graded aggregate base or the asphalt plant mix. In all cases, the tube has to be staked or stabilized. Generally, only one 10-foot section will be needed at a catch basin.

Twenty inch diameter Sediment Tubes are generally specified for ditch protection. Standard Drawing (815-7) gives the details on a typical ditch installation; however, the number and spacing of these installations will be dependent on the grade of the ditch and the volume of expected flow. The Hydraulic Section should provide this information on a case-by-case basis.

Sediment Tubes may be shown in the inclusions on the "Construction Note Sheet". Explanations should accompany the pay items added to the inclusions to describe where the designer intends the Sediment Tubes to be used. When specifying the use of the 20-inch diameter Sediment Tubes, the designer may have to show the spacing and locations of the tubes. When the Sediment Tube is shown on the plan sheet, it should be labeled with the quantity and not placed in the inclusions.

Instructional Bulletin No. 2003-4

April 14, 2003

Page 2

Curb Inlet Filters may be added to the plans where filtration of storm water run-off before it enters the catch basin is desired. The Curb Inlet Filter is laid in the gutter in front of the catch basin covering the throat as shown in Standard Drawing No. 815-7. The designer will determine the quantity by each Curb Inlet Filter needed for each type curb-style catch basin. In general, the Curb Inlet Filter will only be used on catch basins Type 16, 17 and 18.

Approved: _____
E. S. Eargle
Road Design Engineer

ESE:afg

cc:

Mark C. Lester, Prog. Dev. West
Rocque Kneece, Prog. Dev. East
Clem Watson, Director of CRM Operations
CRM East
CRM West
Al Barwick, CRM Manager
Jim Frick, Contract Document Facilitator

File:PC/ESE

bc:

Road Design